

T. DONOVAN & SON (1997) LTD.

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: TRIPLE C # 542

CHEMICAL NAME: COOLING TOWER TREATMENT

MANUFACTURER: T. DONOVAN & SON (1997) LTD

REGULAR PHONE #: 506-642-1500 HOURS: 8:30 - 4:30

EMERGENCY PHONE #: 613-996-6666 CHEMICAL EMERGENCIES ONLY

PRODUCT USE: INDUSTRIAL APPLICATION

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENTS | CONC.% | CAS # |
|---|---------|---------------|
| SODIUM MOLYBDATE DIHYDRATE | 10-15 % | 7631-95-0 |
| SODIUM HEXAMETAPHOSPHATE | 5-10 % | 10124-56-8 |
| SODIUM HYDROXIDE | 10-15 % | 1310-73-2 |
| 2-PHOSPHONO-1,2,4-BUTANETRICARBOXYLIC ACID SOLN | 5-10 % | 3791-36-1 |
| ACRYLIC TERPOLYMER | 1-5 % | NON HAZARDOUS |
| SODIUM TOLYTRIAZOLE | 1-5 % | 64665-57-2 |
| WATER | 40-60 % | 7732-18-5 |

SECTION III - PHYSICAL DATA

| | | | |
|-----------------------------------|----------|--------------------|--------------------|
| PHYSICAL STATE | : LIQUID | ODOR | : NONE |
| BOILING POINT (C) | : N/A | FREEZING POINT (C) | : 0 DEG C |
| ODOR THRESHOLD | : N/A | VAPOR PRESSURE | : N/A |
| VAPOR DENSITY | : N/AP | PERCENT VOLATILE | : 0 |
| EVAPORATION RATE | : N/AP | pH | : 10-11 (1% SOLN.) |
| SPECIFIC GRAVITY: 1.17 @ 20 DEG C | | COEFF WATER / OIL | : N/AP |
| SOLUBILITY IN WATER: SOLUBLE | | BULK DENSITY | : N/A |

SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY : NON FLAMMABLE

EXTINGUISHING MEDIA : NON FLAMMABLE, FOR FIRES INVOLVING THIS PRODUCT,
WATER FOG, CO2, OR FOAM MAY BE USED.

SPECIAL FIRE FIGHTING PROC : WEAR NIOSH APPROVED SELF CONTAINED BREATHING
APPARATUS.

FIRE & EXPLOSION HAZARDS : NONE

FLASHPOINT : NON COMBUSTIBLE

AUTO-IGNITION TEMPERATURE (C): N/A

UPPER FLAMMABILITY LIMIT : N/A

LOWER FLAMMABILITY LIMIT : N/A

HAZARDOUS COMB. PROD. : SEE SECTION V

EXPLOSION SENSITIVITY TO IMPACT: N/A

SENSITIVITY TO STATIC : N/A

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY : YES, STABLE UNDER NORMAL CONDITIONS OF USE.
INCOMPATIBILITY : STRONG OXIDIZNG AGENTS, ACIDS
CONDITIONS TO AVOID : EXTREME HEAT
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
HAZARDOUS DECOMPOSITION: OXIDES OF NITROGEN

SECTION VI - TOXICOLOGICAL EFFECTS

CHRONIC AND ACUTE EFFECTS UPON ROUTES OF ENTRY

EYE CONTACT: IRRITANT & CORROSIVE - IRRITATION MAY OCCUR, MAY CAUSE BURNS

SKIN CONTACT: IRRITANT & CORROSIVE - MAY CAUSE BURNS

INGESTION: CORROSIVE - CAN CAUSE BURNING AND PAIN IN LIPS, MOUTH, THROAT AND STOMACHE.

INHALATION: IRRITATION OF NOSE, THROAT AND LUNGS.

| | | | |
|-----------------|--------|-----------------------|--------|
| EXPOSURE LIMITS | : NONE | SYNERGISTIC PRODUCTS | : NONE |
| IRRITANCY | : NONE | SENSITIZATION | : NONE |
| CARCINOGENICITY | : NONE | TERATOGENICITY | : NONE |
| MUTAGENICITY | : NONE | REPRODUCTIVE TOXICITY | : NONE |

SECTION VII - EMERGENCY AND FIRST AID PROCEDURES

IN ALL CASES, SEEK MEDICAL ATTENTION IMMEDIATELY

EYE CONTACT: FLUSH EYES WITH WATER FOR 30 MINUTES, HOLDING THE EYELIDS OPEN. A NEUTRAL SALINE SOLUTION MAY BE USED TO FLUSH CONTAMINATED EYES.

SKIN CONTACT: FLUSH WITH WATER FOR 30 MINUTES. REMOVE CONTAMINATED CLOTHING. COMPLETELY DECONTAMINATE CLOTHING AND ALL PROTECTIVE EQUIPMENT.

INGESTION: DO NOT INDUCE VOMITING. DRINK LARGE QUANTITIES OF WATER OR MILK. IF VOMITING OCCURS NATURALLY, HAVE VICTIM LEAN FORWARD. REPEAT ADMINISTERING WATER.

INHALATION: REMOVE FROM CONTAMINATED AREA. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF DIFFICULTY BREATHING, GIVE OXYGEN.

SECTION VIII - PREVENTIVE MEASURES

EYE PROTECTION : SAFETY OR CHEMICAL GLASSES FOR FULL FACE MASK.
SKIN PROTECTION : RUBBER OR PLASTIC GLOVES, COVERALLS OR APRON.
RESPIRATORY PROTECTION : WEAR NIOSH APPROVED RESPIRATOR.
ENGINEERING CONTROLS : GENERAL MECHANICAL VENTILATION.

SPILL & LEAK PROCEDURES : WEAR NECESSARY PROTECTIVE CLOTHING AND EQUIPMENT. PUMP SPILLED PRODUCT INTO WASTE CONTAINER. CONTAIN LARGE SPILLS FOR LATER DISPOSAL.

WASTE DISPOSAL : DISPOSE ACCORDING TO LOCAL, PROVINCIAL AND FEDERAL LAWS.

HANDLING & STORAGE : STORE IN CLOSED CONTAINERS IN DRY, COOL AREAS. DO NOT STORE NEAR ACIDS.

SECTION IX - TRANSPORT AND REGULATORY INFORMATION

TDG REGULATION : SODIUM HYDROXIDE SOLUTION
CLASS 8, UN 1824, PG II

WHMIS CLASSIFICATION : CLASS D-1B, E

PREPARED BY: TECHNICAL SERVICES DEPARTMENT
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